

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Previously Presented) A nucleic acid comprising a nucleotide sequence encoding a secreted fusion protein consisting of:

- (i) a signal peptide that directs secretion of the fusion protein from a host cell;
- (ii) a soluble form of human semicarbazide-sensitive amine oxidase (SSAO) consisting of amino acids 29 to 763 of SEQ ID NO:2 or a fragment thereof exhibiting benzylamine oxidase activity;
- (iii) a first fusion partner that enables dimerization of the soluble form of human SSAO;
- (iv) a protease cleavage site located between the soluble form of human SSAO and the fusion partner; and
- (v) optionally one or more spacer amino acid sequences.

2-3. (Cancelled)

4. (Previously Presented) The nucleic acid according to claim 1, wherein the soluble form of human SSAO consists of amino acids 29 to 763 of SEQ ID NO:2.

5-6. (Cancelled)

7. (Original) The nucleic acid according to claim 1, wherein the fusion partner is fused to the N-terminal portion of the soluble form of human SSAO.

8. (Cancelled)

9. (Currently Amended) The nucleic acid according to claim 1, wherein the fusion partner is a variant of *Schistosoma japonicum* glutathione S-transferase, the variant having at least one of the cysteine residues in positions 85, 138, and 178 replaced by another amino acid residue.

10. (Currently Amended) The nucleic acid according to claim 1, wherein the fusion partner comprises the amino acid sequence of SEQ ID NO:4 or SEQ ID NO:5.

11. (Original) The nucleic acid according to claim 1, wherein the signal peptide is a mouse IgG1 heavy chain signal peptide.

12. (Original) The nucleic acid according to claim 1, wherein the protease cleavage site is a 3C protease cleavage site.

13. (Previously Presented) The nucleic acid according to claim 12, wherein the 3C protease cleavage site comprises the amino acid sequence EALFQG (SEQ ID NO:6).

14. (Original) The nucleic acid according to claim 1, wherein the fusion protein comprises the amino acid sequence of SEQ ID NO:20.

15. (Original) An expression vector comprising the nucleic acid of claim 1.

16. (Original) An expression vector comprising the nucleic acid of claim 14.

17. (Original) A method for the purification of a recombinant human SSAO, the method comprising:

- (i) transfecting a cell with the expression vector according to claim 15;
- (ii) culturing the cell in a culture medium and under conditions wherein the fusion protein encoded by the expression vector is secreted into the culture medium;
- (iii) binding the secreted fusion protein to a ligand having affinity for the fusion partner;

- (iv) separating the fusion partner and the soluble form of human SSAO; and
- (v) recovering the soluble form of human SSAO.

18. (Previously Presented) The method according to claim 17, wherein the ligand having affinity for the fusion partner is glutathione.

19. (Original) The method according to claim 17, wherein the fusion partner is separated from the soluble form of human SSAO by protease cleavage.

20. (Original) The method according to claim 19, wherein the protease is a picornavirus 3C-protease.

21. (Original) The method according to claim 20, wherein the protease is rhinovirus 3C-protease.

22. (Previously Presented) The method according to claim 19, wherein the protease is fused to a second fusion partner resulting in a fusion protease.

23. (Original) The method according to claim 22, wherein the fusion protease is separated from the soluble form of human SSAO by a process comprising binding the fusion protease to a ligand having affinity for the fusion protease.

24. (Previously Presented) A method for the preparation of an immobilized recombinant human SSAO, the method comprising:

- (i) transfecting a cell with the expression vector according to claim 15;
- (ii) culturing the cell in a culture medium and under conditions wherein the fusion protein encoded by the expression vector is secreted into the culture medium; and
- (iii) binding the secreted fusion protein to a ligand having affinity for the first fusion partner to thereby immobilize the fusion protein.

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25-26. (Cancelled)